APPENDIX A: DNA SEQUENCES

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>RXA00054-upstream
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>RXA00054
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>RXA00056-upstream
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>RXA00056
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>RXA00056-downstream
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>RXA00058-upstream
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>RXA00058
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>RXA00059-upstream
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>RXA00059
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>RXA00059-downstream
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>RXA00063-upstream
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>RXA00063
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>RXA00063-downstream
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>RXA00065-upstream
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>RXA00065
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>RXA00065-downstream
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>RXA00067-upstream
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>RXA00067
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>RXA00067-downstream
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>RXA00068-upstream
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>RXA00068
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>RXA00068-downstream
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>RXA00071-upstream
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>RXA00071
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>RXA00077
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>RXA00077-downstream
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>RXA00079-upstream
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>RXA00079
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>RXA00079-downstream
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>RXA00080-upstream
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>RXA00080
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>RXA00080-downstream
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>RXA00082-upstream

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>RXA00082
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>RXA00083-upstream
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>RXA00083
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>RXA00083-downstream
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>RXA00087-upstream
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>RXA00087
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>RXA00087-downstream
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>RXA00093-upstream
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>RXA00093
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>RXA00093-downstream
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>RXA00096-upstream
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>RXA00096
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GGA

>RXA00096-downstream
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>RXA00097-upstream
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>RXA00097
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>RXA00097-downstream
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>RXA00101-upstream
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>RXA00101
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>RXA00101-downstream
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>RXA00108-upstream
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>RXA00108
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>RXA00110-upstream

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>RXA00110
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>RXA00114-upstream
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>RXA00114
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ACCGCGCAG

>RXA00114-downstream
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>RXA00117-upstream
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>RXA00117
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>RXA00118-upstream
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>RXA00118
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>RXA00118-downstream
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>RXA00119-upstream
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>RXA00119
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>RXA00120-upstream
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>RXA00120
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>RXA00121-upstream
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>RXA00121
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>RXA00121-downstream
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>RXA00122-upstream
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>RXA00122
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>RXA00127
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>RXA00127-downstream
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>RXA00128-upstream
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>RXA00128
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>RXA00134-upstream
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>RXA00134
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>RXA00140-upstream
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>RXA00141-upstream
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>RXA00141
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>RXA00142-upstream
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>RXA00142
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>RXA00150-upstream

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>RXA00150
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>RXA00151-upstream
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>RXA00151
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>RXA00153-upstream
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>RXA00153
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>RXA00153-downstream
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>RXA00154-upstream

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>RXA00154
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GCC

>RXA00154-downstream
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>RXA00155-upstream
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>RXA00155
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TCC

>RXA00155-downstream
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>RXA00159-upstream
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>RXA00159
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>RXA00159-downstream
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>RXA00161-upstream
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>RXA00161
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>RXA00161-downstream
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>RXA00162-upstream
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>RXA00162
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>RXA00162-downstream
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>RXA00167-upstream
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>RXA00167
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>RXA00169-upstream
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>RXA00169
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>RXA00169-downstream
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>RXA00170-upstream
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>RXA00170
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>RXA00170-downstream
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>RXA00171-upstream
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>RXA00171
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>RXA00171-downstream
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>RXA00173-upstream
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>RXA00173
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GCTCCAACCCTGGTCGTACCTATTTCCAGCGACATCTCCACAGCCGTTTCGGAAATATCT
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>RXA00173-downstream
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>RXA00174-upstream
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>RXA00174
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ACCCACCTCGACAATCTTGCTGAGAAATTCACCCGCACACATGGTGAAGCACAGTACGAT
GCCGGCTTTGATCCCAATGATCTTGAACCAGAGACTTTTGTTCGTGACATTGAGATGAGC
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>RXA00174-downstream
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>RXA00175-upstream
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>RXA00175
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>RXA00175-downstream
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>RXA00176
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>RXA00176-downstream
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>RXA00179-upstream
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>RXA00179
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>RXA00179-downstream
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>RXA00180-upstream

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>RXA00180
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>RXA00180-downstream
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>RXA00183-upstream
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>RXA00183
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>RXA00183-downstream
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>RXA00185-upstream
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>RXA00185
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>RXA00185-downstream
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>RXA00194
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>RXA00197
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>RXA00199
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>RXA00199-downstream
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>RXA00207-upstream
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>RXA00207
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>RXA00207-downstream
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>RXA00211-upstream
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>RXA00211
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>RXA00211-downstream
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>RXA00218-upstream
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>RXA00218
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>RXA00218-downstream
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>RXA00220-upstream
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>RXA00220
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>RXA00222-upstream
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>RXA00222
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>RXA00230-upstream
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>RXA00230
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>RXA00230-downstream
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>RXA00232-upstream
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>RXA00232
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>RXA00232-downstream
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>RXA00233-upstream
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>RXA00233
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>RXA00234-upstream
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>RXA00234
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>RXA00234-downstream

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>RXA00236-upstream
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>RXA00236
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>RXA00237-upstream
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>RXA00237
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>RXA00238-upstream
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>RXA00238
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>RXA00238-downstream
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>RXA00239-upstream

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>RXA00239
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>RXA00239-downstream
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>RXA00240-upstream
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>RXA00240
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>RXA00240-downstream
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>RXA00242-upstream
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>RXA00242
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>RXA00244
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>RXA00244-downstream
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>RXA00245-upstream
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>RXA00245
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>RXA00247-upstream
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>RXA00247

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>RXA00248
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>RXA00252-upstream
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>RXA00252-downstream
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>RXA00256-upstream
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>RXA00257-upstream
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>RXA00257
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>RXA00271-upstream
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>RXA00271
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>RXA00276
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>RXA00276-downstream
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>RXA00279-upstream
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>RXA00282
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>RXA00283
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>RXA00285
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>RXA00286-upstream
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>RXA00286
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>RXA00321
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>RXA00322
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>RXA00325
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>RXA00339-upstream

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>RXA00342
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>RXA00344-downstream
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>RXA00349
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>RXA00353
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>RXA00380
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>RXA00387
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>RXA00392
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>RXA00399-upstream
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>RXA00409-upstream
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>RXA00422-upstream
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>RXA00422
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>RXA00423-upstream
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>RXA00423
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>RXA00423-downstream
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>RXA00424-upstream
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>RXA00424

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>RXA00425-upstream
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>RXA00425
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>RXA00428
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>RXA00430-upstream
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>RXA00430
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>RXA00430-downstream
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>RXA00433-upstream
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>RXA00433
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>RXA00433-downstream
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>RXA00447-upstream
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>RXA00447
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>RXA00455
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>RXA00457-upstream
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>RXA00457
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>RXA00462
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>RXA00462-downstream
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>RXA00463-upstream
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>RXA00463
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>RXA00468
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>RXA00469-upstream
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>RXA00469
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>RXA00469-downstream
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>RXA00472-upstream
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>RXA00472
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>RXA00473
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>RXA00473-downstream
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>RXA00474-upstream
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>RXA00474
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>RXA00475
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>RXA00485
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>RXA00529-upstream
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>RXA00577-downstream
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>RXA00578
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>RXA00578-downstream
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>RXA00582-upstream
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>RXA00582
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>RXA00582-downstream
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>RXA00585-upstream

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>RXA00585
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>RXA00585-downstream
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>RXA00586-upstream
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>RXA00587-upstream
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>RXA00587
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>RXA00589-upstream
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>RXA00589
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>RXA00595-downstream
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>RXA00597-upstream
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>RXA00598-upstream
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>RXA00598
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>RXA00598-downstream
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>RXA00601-upstream
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>RXA00601-downstream
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>RXA00602-upstream
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>RXA00602
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>RXA00604-upstream
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>RXA00604
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>RXA00610-upstream
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>RXA00610
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>RXA00610-downstream
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>RXA00611-upstream
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>RXA00611
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>RXA00613-upstream
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>RXA00613
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>RXA00614
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>RXA00616-upstream
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>RXA00616
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>RXA00617-upstream
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>RXA00617
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>RXA00628
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>RXA00631-upstream
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>RXA00631
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>RXA00637-upstream
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>RXA00637
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>RXA00722
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>RXA00741-downstream
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>RXA00742-upstream
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>RXA00742
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>RXA00742-downstream
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>RXA00743-upstream
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>RXA00743
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>RXA00743-downstream
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>RXA00745-upstream
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>RXA00745
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>RXA00746-upstream
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>RXA00746
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>RXA00747-upstream
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>RXA00747
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>RXA00747-downstream
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>RXA00748-upstream
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>RXA00748
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>RXA00749-upstream
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>RXA00749
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>RXA00750-upstream
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>RXA00750
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>RXA00751-upstream
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>RXA00751
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>RXA00752-upstream
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>RXA00752
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>RXA00757-upstream
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>RXA00757
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>RXA00763-upstream
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>RXA00763
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>RXA00765-upstream
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>RXA00765
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>RXA00765-downstream
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>RXA00767-upstream
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>RXA00767
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>RXA00767-downstream
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>RXA00768-upstream
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>RXA00768
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>RXA00769-upstream
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>RXA00769
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>RXA00769-downstream
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>RXA00771-upstream
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>RXA00771
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>RXA00781-upstream
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>RXA00781
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>RXA00781-downstream
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>RXA00785
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>RXA00788
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>RXA00788-downstream
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>RXA00795-upstream
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>RXA00795
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>RXA00804-upstream

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>RXA00814
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>RXA00815
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>RXA00816
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>RXA00853
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>RXA00917-downstream
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>RXA00921-upstream
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>RXA00921
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>RXA00926-downstream
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>RXA00930-upstream
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>RXA00930
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>RXA00932-upstream
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>RXA00932
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>RXA00932-downstream
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>RXA00933-upstream
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>RXA00933
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>RXA00943
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>RXA00946-upstream
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>RXA00946
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>RXA00949-upstream
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>RXA00949
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>RXA00959
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>RXA00963
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>RXA00971-downstream
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>RXA00973-upstream
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>RXA00973
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>RXA00973-downstream
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>RXA00978-upstream
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>RXA00978
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>RXA00986-upstream
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>RXA00986
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>RXA00986-downstream
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>RXA00987-upstream
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>RXA00987
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RXA00988-upstream
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>RXA00988
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>RXA00988-downstream
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>RXA01005-upstream
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>RXA01005
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>RXA01005-downstream
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>RXA01007-upstream
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>RXA01007
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>RXA01007-downstream
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>RXA01008-upstream
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>RXA01008
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>RXA01008-downstream
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>RXA01011-upstream
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>RXA01011
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>RXA01011-downstream
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>RXA01016-upstream
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>RXA01016
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>RXA01016-downstream
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>RXA01017-upstream

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>RXA01017
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CAGTTCGAC

>RXA01017-downstream
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>RXA01021-upstream
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>RXA01021
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>RXA01023
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>RXA01023-downstream
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>RXA01028
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>RXA01028-downstream
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RXA01029-upstream
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>RXA01029
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>RXA01029-downstream
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>RXA01031-upstream
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>RXA01031
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>RXA01031-downstream
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>RXA01032-upstream
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>RXA01032
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>RXA01032-downstream
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>RXA01033-upstream
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>RXA01033
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>RXA01033-downstream
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>RXA01034-upstream
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>RXA01034
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>RXA01034-downstream
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>RXA01035-upstream
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>RXA01035
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GCTGCC

>RXA01035-downstream

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>RXA01036-upstream
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>RXA01036
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>RXA01036-downstream
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>RXA01037-upstream
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>RXA01037
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>RXA01037-downstream
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>RXA01038-upstream
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>RXA01038
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>RXA01038-downstream
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>RXA01039-upstream
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>RXA01039
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>RXA01039-downstream
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>RXA01040-upstream
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>RXA01040
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CGG

>RXA01040-downstream
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>RXA01041-upstream
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>RXA01041
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>RXA01041-downstream
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>RXA01042-upstream
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>RXA01042
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>RXA01083-upstream
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>RXA01083
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>RXA01083-downstream
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>RXA01085-upstream
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>RXA01085
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>RXA01088
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>RXA01091-upstream
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>RXA01091
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>RXA01091-downstream
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>RXA01102
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>RXA01103-upstream
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>RXA01107-upstream
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>RXA01108
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>RXA01109
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>RXA01119
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>RXA01121-upstream
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>RXA01121
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>RXA01123
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>RXA01129-upstream
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>RXA01129
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>RXA01131-upstream
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>RXA01131
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>RXA01131-downstream
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>RXA01134
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>RXA01137-upstream
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>RXA01137
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>RXA01137-downstream
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>RXA01140-upstream
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>RXA01140

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>RXA01148-upstream
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>RXA01148
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>RXA01148-downstream
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>RXA01153
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GTG

>RXA01154
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>RXA01155-upstream
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>RXA01155
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>RXA01156-upstream
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>RXA01156
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>RXA01156-downstream
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>RXA01158-upstream
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>RXA01158
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>RXA01158-downstream
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>RXA01159-upstream
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>RXA01159
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>RXA01159-downstream
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>RXA01160
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>RXA01160-downstream
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RXA01163-upstream
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>RXA01163
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>RXA01165-upstream
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>RXA01165
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>RXA01165-downstream
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>RXA01166
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GTC

>RXA01166-downstream
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>RXA01167
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>RXA01167-downstream
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>RXA01169
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>RXA01169-downstream
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>RXA01170-upstream
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>RXA01170
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>RXA01170-downstream
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>RXA01171-upstream
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>RXA01171
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>RXA01171-downstream
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>RXA01173-upstream
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>RXA01173
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>RXA01173-downstream
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>RXA01174-upstream
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>RXA01174
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CGCCTCGACTTCGGTGTAGAAACCCCAGAGTTCATCGCCGCAAAGATCAATGAGACCGGC
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>RXA01174-downstream
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>RXA01176-upstream
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>RXA01176
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>RXA01176-downstream
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>RXA01177-upstream
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>RXA01178-upstream
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>RXA01178
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>RXA01178-downstream
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>RXA01184-upstream
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>RXA01184
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>RXA01186-upstream
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>RXA01186
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>RXA01186-downstream
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>RXA01187-upstream
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>RXA01187
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>RXA01187-downstream
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>RXA01195-upstream
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>RXA01195
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>RXA01196-upstream
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>RXA01196
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>RXA01197-upstream
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>RXA01197
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>RXA01198-upstream
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>RXA01198
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>RXA01206-upstream
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>RXA01206
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>RXA01207-upstream
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>RXA01207
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>RXA01210
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>RXA01210-downstream
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>RXA01213-upstream
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>RXA01213
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>RXA01218-upstream
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>RXA01218
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>RXA01218-downstream

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>RXA01229-upstream
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>RXA01229
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>RXA01231-upstream
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>RXA01231
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>RXA01231-downstream
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>RXA01234-upstream
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>RXA01234
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>RXA01234-downstream
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>RXA01237-upstream
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>RXA01237
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>RXA01237-downstream
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>RXA01246-upstream
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>RXA01246
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>RXA01249
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>RXA01304-upstream
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>RXA01304
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>RXA01304-downstream
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>RXA01306-upstream
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>RXA01306
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CGGGAGCATAACGAGCAGATCAGTGCGGTGCTTTCCGCTGATGGGAAAACGGTGCTTGGT
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>RXA01306-downstream
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>RXA01310-upstream
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>RXA01310
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>RXA01310-downstream
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>RXA01313
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>RXA01313-downstream
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>RXA01315-upstream
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>RXA01315
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>RXA01315-downstream
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>RXA01316-upstream
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>RXA01316
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>RXA01316-downstream

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>RXA01317-upstream
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>RXA01317
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>RXA01317-downstream
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>RXA01318-upstream
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>RXA01318
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>RXA01318-downstream
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>RXA01322-upstream
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>RXA01322
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>RXA01326-upstream
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>RXA01326
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>RXA01326-downstream
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>RXA01330-upstream
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>RXA01330
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>RXA01330-downstream
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>RXA01331-upstream
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>RXA01331
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>RXA01331-downstream
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>RXA01333-upstream
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>RXA01333
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>RXA01333-downstream
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>RXA01336-upstream
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>RXA01336
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>RXA01336-downstream
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>RXA01337-upstream
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>RXA01337
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>RXA01337-downstream
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>RXA01342-upstream
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>RXA01342
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>RXA01342-downstream
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>RXA01348-upstream
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>RXA01348
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>RXA01349-upstream
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>RXA01349
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>RXA01349-downstream
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>RXA01357-upstream
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>RXA01357
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>RXA01357-downstream
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>RXA01359-upstream
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>RXA01397

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>RXA01397-downstream
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>RXA01400-upstream
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>RXA01400
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>RXA01400-downstream
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>RXA01401-upstream
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>RXA01401
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>RXA01401-downstream
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>RXA01402-upstream
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>RXA01402
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>RXA01405-upstream
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>RXA01405
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>RXA01409
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>RXA01413-upstream
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>RXA01413
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>RXA01413-downstream
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>RXA01414-upstream
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>RXA01414
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>RXA01417-upstream
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>RXA01417
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>RXA01421-upstream
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>RXA01421
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>RXA01422
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>RXA01425-upstream
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>RXA01425
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>RXA01429-upstream
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>RXA01429
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>RXA01429-downstream
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>RXA01434
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>RXA01434-downstream
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>RXA01439-upstream
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>RXA01439
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>RXA01439-downstream
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>RXA01440-upstream
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>RXA01440
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>RXA01440-downstream
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>RXA01441-upstream
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>RXA01441
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GGCACACAC

>RXA01441-downstream
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>RXA01445-upstream
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>RXA01445
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>RXA01445-downstream
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>RXA01447-upstream
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GTGCGGCCG

>RXA01447-downstream
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>RXA01448-upstream
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>RXA01448
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>RXA01448-downstream
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>RXA01452-upstream
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>RXA01452
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>RXA01452-downstream
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>RXA01456-upstream
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>RXA01456
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>RXA01456-downstream
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>RXA01457-upstream
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>RXA01457
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>RXA01457-downstream
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>RXA01459-upstream
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>RXA01459
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>RXA01459-downstream
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>RXA01460-upstream
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>RXA01460
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>RXA01460-downstream
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>RXA01463-upstream
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>RXA01463
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>RXA01469-upstream
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>RXA01469
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>RXA01469-downstream
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>RXA01470-upstream
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>RXA01470
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>RXA01470-downstream
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>RXA01471-upstream
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>RXA01471

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>RXA01472-upstream
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>RXA01472
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>RXA01472-downstream
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>RXA01473-upstream
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>RXA01473
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>RXA01473-downstream
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>RXA01474-upstream

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>RXA01474
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>RXA01474-downstream
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>RXA01475-upstream
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>RXA01475
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GAGGAC

>RXA01475-downstream
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>RXA01476-upstream
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>RXA01476
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>RXA01476-downstream
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>RXA01479-upstream
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>RXA01479
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>RXA01479-downstream
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>RXA01484-upstream
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>RXA01484
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>RXA01485-upstream
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>RXA01485
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>RXA01485-downstream
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>RXA01488-upstream
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>RXA01488
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>RXA01488-downstream
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>RXA01492-upstream
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>RXA01492
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>RXA01494-upstream
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>RXA01494
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>RXA01494-downstream
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>RXA01497-upstream
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>RXA01497
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>RXA01501-upstream
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>RXA01501
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>RXA01504-upstream
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>RXA01504
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>RXA01505-upstream
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>RXA01505
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>RXA01506-upstream
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>RXA01506
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>RXA01507-upstream
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>RXA01518
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>RXA01519
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>RXA01520-upstream

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>RXA01523-upstream
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>RXA01523
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>RXA01523-downstream
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>RXA01525
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>RXA01527-upstream
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>RXA01527
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>RXA01536-upstream
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>RXA01536
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>RXA01539
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>RXA01696
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>RXA01748-upstream
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>RXA01748
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>RXA01749-upstream
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>RXA01760
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>RXA01769-upstream
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>RXA01794
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>RXA01794-downstream
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>RXA01796
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>RXA01796-downstream
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>RXA01799-upstream
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>RXA01799
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>RXA01800-upstream
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>RXA01800
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>RXA01804-upstream
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>RXA01804
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>RXA01805-upstream
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>RXA01806-upstream
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>RXA01812
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>RXA01813
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>RXA01815
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>RXA01816-upstream
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>RXA01816
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>RXA01816-downstream
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>RXA01817-upstream
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>RXA01817
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>RXA01820-upstream
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>RXA01820
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>RXA01820-downstream
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>RXA01825-upstream
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>RXA01831-upstream
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>RXA01834-downstream
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>RXA01842-upstream
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>RXA01842
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>RXA01844-upstream
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>RXA01845-downstream
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>RXA01846-upstream
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>RXA01846
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>RXA01847-upstream
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>RXA01847
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>RXA01847-downstream
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>RXA01856-upstream
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>RXA01856
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>RXA01856-downstream
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>RXA01857-upstream
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>RXA01857
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>RXA01858-upstream
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>RXA01858
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>RXA01870
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>RXA01871-upstream
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>RXA01871
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>RXA01874-upstream
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>RXA01874
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>RXA01877
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>RXA01879
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>RXA01896-downstream
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>RXA01903
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>RXA01907-upstream
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>RXA01907

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>RXA01908-upstream
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>RXA01909-downstream
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>RXA01910-upstream
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>RXA01910

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>RXA01910-downstream
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>RXA01911-upstream
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>RXA01911
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>RXA01923
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>RXA01930
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>RXA01931
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>RXA01941-upstream
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>RXA01941
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>RXA01941-downstream
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>RXA01942-upstream
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>RXA01942
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>RXA01944
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>RXA01945-upstream
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>RXA01945
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>RXA01957
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>RXA01957-downstream
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>RXA01958-upstream
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>RXA01958
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>RXA01958-downstream
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>RXA01959-upstream
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>RXA01959
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>RXA01961-upstream
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>RXA01961
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>RXA01961-downstream
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>RXA01962-upstream
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>RXA01962
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>RXA01963-upstream
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>RXA01963
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>RXA01964
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>RXA01965
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>RXA01965-downstream
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>RXA01966-upstream
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>RXA01966
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>RXA01966-downstream
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>RXA01968-upstream
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>RXA01968
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>RXA01974
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>RXA01976-upstream

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>RXA01976
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>RXA01977-upstream
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>RXA01977
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>RXA01977-downstream
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>RXA01982
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>RXA01987-upstream
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>RXA01987
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>RXA01988
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>RXA01990
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>RXA01991-upstream
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>RXA01991
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>RXA01992
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>RXA01992-downstream
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>RXA01996-upstream
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>RXA01999-upstream
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>RXA02004
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>RXA02013
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>RXA02014-downstream
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>RXA02019
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>RXA02019-downstream
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>RXA02021-upstream
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>RXA02021
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>RXA02021-downstream
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>RXA02023-upstream
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>RXA02023
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>RXA02023-downstream
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>RXA02032-upstream
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>RXA02032
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>RXA02032-downstream
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>RXA02036-upstream
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>RXA02036
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>RXA02036-downstream
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>RXA02039
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>RXA02039-downstream
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>RXA02040
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>RXA02040-downstream
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>RXA02045-upstream
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>RXA02045
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>RXA02045-downstream
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>RXA02046-upstream
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>RXA02046
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>RXA02049-upstream
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>RXA02049
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>RXA02049-downstream
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>RXA02050-upstream
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>RXA02050
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>RXA02050-downstream
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>RXA02051-upstream
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>RXA02051
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>RXA02051-downstream
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>RXA02053-upstream
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>RXA02053
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>RXA02053-downstream

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>RXA02057-upstream
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>RXA02057
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>RXA02057-downstream
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>RXA02058-upstream
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>RXA02058
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>RXA02058-downstream
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>RXA02059-upstream
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>RXA02059
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>RXA02059-downstream
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>RXA02066-upstream
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>RXA02066
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>RXA02066-downstream
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>RXA02067-upstream
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>RXA02067
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>RXA02067-downstream
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>RXA02069-upstream
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>RXA02069
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>RXA02069-downstream
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>RXA02070-upstream
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>RXA02070
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>RXA02070-downstream
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>RXA02071-upstream
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>RXA02071
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>RXA02076-upstream
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>RXA02076
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>RXA02076-downstream
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>RXA02080-upstream
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>RXA02080
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>RXA02080-downstream
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>RXA02081-upstream
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>RXA02081
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>RXA02081-downstream
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>RXA02084-upstream

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>RXA02084
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>RXA02084-downstream
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>RXA02089-upstream
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>RXA02089
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>RXA02089-downstream
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>RXA02090-upstream
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>RXA02090
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>RXA02090-downstream
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>RXA02091-upstream
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>RXA02091
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>RXA02091-downstream
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>RXA02094-upstream
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>RXA02094
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>RXA02094-downstream
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>RXA02097-upstream
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>RXA02097
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>RXA02097-downstream
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>RXA02102-upstream
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>RXA02102
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>RXA02102-downstream
TGAAGGTGGCACCAAGGTGTATC

>RXA02103-upstream
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>RXA02103
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>RXA02103-downstream
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>RXA02104
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>RXA02104-downstream
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>RXA02107-upstream
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>RXA02107
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>RXA02107-downstream
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>RXA02108-upstream

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>RXA02108
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>RXA02108-downstream
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>RXA02109-upstream
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>RXA02109
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>RXA02109-downstream
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>RXA02114
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GAGGTA

>RXA02114-downstream
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>RXA02117-upstream
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>RXA02117
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>RXA02117-downstream
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>RXA02121-upstream
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>RXA02121
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>RXA02121-downstream
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>RXA02123-upstream
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>RXA02123
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>RXA02123-downstream
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>RXA02124-upstream
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>RXA02124
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>RXA02124-downstream
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>RXA02125-upstream
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>RXA02125
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>RXA02129-upstream
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>RXA02129
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>RXA02129-downstream
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>RXA02132-upstream
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>RXA02132
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>RXA02137-upstream
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>RXA02137
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>RXA02137-downstream
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>RXA02138-upstream
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>RXA02138
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>RXA02138-downstream
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>RXA02141-upstream
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>RXA02141
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>RXA02146-upstream
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>RXA02146
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>RXA02151-upstream
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>RXA02151
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>RXA02152-upstream
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>RXA02152
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>RXA02163-upstream
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>RXA02163
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>RXA02164-upstream
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>RXA02164
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>RXA02164-downstream
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>RXA02165-upstream
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>RXA02165
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>RXA02166-upstream
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>RXA02166-downstream
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>RXA02168-upstream
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>RXA02168
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>RXA02168-downstream
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>RXA02169-upstream
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>RXA02169
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>RXA02170-upstream
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>RXA02170
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>RXA02172-upstream
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>RXA02172
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>RXA02172-downstream
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>RXA02177-upstream
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>RXA02178-upstream
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>RXA02178
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>RXA02180
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>RXA02181
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>RXA02183-upstream
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>RXA02183
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>RXA02185
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>RXA02186-upstream
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>RXA02186
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>RXA02187-upstream

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>RXA02187
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>RXA02199-upstream
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>RXA02199
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>RXA02203-upstream
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>RXA02203-downstream
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>RXA02206-upstream
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>RXA02206
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>RXA02206-downstream
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>RXA02207-upstream
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>RXA02207
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>RXA02211
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>RXA02212-upstream
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>RXA02212
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>RXA02216
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>RXA02216-downstream
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>RXA02217-upstream
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>RXA02217
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>RXA02217-downstream
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>RXA02218-upstream
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>RXA02218
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>RXA02219-upstream
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>RXA02219
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>RXA02221
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>RXA02223-upstream
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>RXA02223
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>RXA02226
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>RXA02227
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>RXA02230
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>RXA02231-upstream
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>RXA02231
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>RXA02238
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>RXA02244-upstream
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>RXA02244
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>RXA02254-upstream
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>RXA02254
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>RXA02255-upstream
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>RXA02255
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>RXA02266-upstream
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>RXA02266
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>RXA02266-downstream
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>RXA02267-upstream
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>RXA02267
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>RXA02271
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>RXA02279
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>RXA02280
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>RXA02285
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>RXA02286
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>RXA02287
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>RXA02295-upstream
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>RXA02296-upstream
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>RXA02296
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>RXA02297-upstream
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>RXA02297
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>RXA02298
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>RXA02302-upstream
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>RXA02302
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>RXA02303
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>RXA02304-upstream
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>RXA02314
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>RXA02325-upstream
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>RXA02325
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>RXA02325-downstream
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>RXA02331-upstream
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>RXA02331
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>RXA02336-upstream
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>RXA02336
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>RXA02337-upstream
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>RXA02337
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>RXA02340
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>RXA02356-upstream
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>RXA02356
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>RXA02358
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>RXA02360
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>RXA02361
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>RXA02362
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>RXA02367-downstream
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>RXA02368-upstream
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>RXA02368
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>RXA02368-downstream
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>RXA02374-upstream
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>RXA02374
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>RXA02374-downstream
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>RXA02381
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>RXA02383-upstream
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>RXA02383
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>RXA02387
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>RXA02393-upstream
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>RXA02393
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>RXA02395
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>RXA02396
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>RXA02398-upstream
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>RXA02398
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>RXA02403
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>RXA02406-upstream
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>RXA02406
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>RXA02408
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>RXA02412-upstream
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>RXA02417
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>RXA02421
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>RXA02423-upstream
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>RXA02423
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>RXA02425
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>RXA02425-downstream
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>RXA02427-upstream
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>RXA02427
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>RXA02427-downstream
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>RXA02428-upstream
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>RXA02428
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>RXA02428-downstream
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>RXA02430-upstream
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>RXA02430
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>RXA02430-downstream
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>RXA02433-upstream
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>RXA02433
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>RXA02433-downstream
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>RXA02437-upstream
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>RXA02437
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>RXA02437-downstream
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>RXA02443-upstream
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>RXA02443
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>RXA02443-downstream
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>RXA02444-upstream
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>RXA02444
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>RXA02444-downstream
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>RXA02452-upstream
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>RXA02452
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>RXA02452-downstream
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>RXA02454
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>RXA02454-downstream
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>RXA02457-upstream
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>RXA02457
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>RXA02457-downstream
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>RXA02459-upstream
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>RXA02459
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>RXA02459-downstream
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>RXA02460-upstream
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>RXA02460
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>RXA02460-downstream
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>RXA02461-upstream
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>RXA02461
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>RXA02461-downstream
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>RXA02464-upstream
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>RXA02464
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>RXA02464-downstream
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>RXA02465-upstream
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>RXA02465

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>RXA02465-downstream
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>RXA02466-upstream
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>RXA02466
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>RXA02467-upstream
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>RXA02467
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>RXA02467-downstream
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>RXA02472-upstream
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>RXA02472
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>RXA02472-downstream
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>RXA02473-upstream
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>RXA02473
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>RXA02473-downstream
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>RXA02475-upstream
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>RXA02475
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>RXA02478-upstream
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>RXA02478
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>RXA02482
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>RXA02483-upstream
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>RXA02483
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>RXA02484-upstream

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>RXA02496-upstream
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>RXA02498
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>RXA02500-upstream
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>RXA02514
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>RXA02520
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>RXA02521-upstream
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>RXA02521
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>RXA02524
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>RXA02554-upstream
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>RXA02554
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>RXA02568
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>RXA02715-upstream
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>RXA02766-downstream
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>RXA02770
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>RXA02770-downstream
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>RXA02774
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>RXA02774-downstream
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>RXA02775-upstream
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>RXA02775
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>RXA02776
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>RXA02777
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>RXA02779-upstream
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>RXA02779
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>RXA02781
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>RXA02782
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>RXA02783
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>RXA02789
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>RXA02789-downstream
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>RXA02793-upstream
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>RXA02793
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>RXA02824
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>RXA02825
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>RXA02827-upstream
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>RXA02827
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>RXA02838
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>RXA02841-upstream
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>RXA02841
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>RXA02845
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>RXA02846
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>RXA02847
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>RXA02848
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>RXA02856

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>RXA02858
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>RXA02862-upstream
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>RXA02862
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>RXA02867
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>RXA02874
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>RXA02876-upstream
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>RXA02876
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>RXA02881-upstream
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>RXA02881
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>RXA02884
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>RXA02885
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>RXA02888-upstream
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>RXA02892-upstream
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>RXA02892
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>RXA02898
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>RXN00120-downstream
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>RXN00128-upstream
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>RXN00128
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>RXN00128-downstream
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>RXN00154-upstream
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>RXN00154
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>RXN00154-downstream
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>RXN00162-upstream
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>RXN00162
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>RXN00162-downstream
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>RXN00167-upstream
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>RXN00167
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>RXN00171
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>RXN00171-downstream
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>RXN00194-upstream
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>RXN00194
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>RXN00194-downstream
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>RXN00197-upstream
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>RXN00197
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>RXN00197-downstream
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>RXN00216-upstream
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>RXN00216
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>RXN00216-downstream

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>RXN00222-upstream
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>RXN00222
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>RXN00222-downstream
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>RXN00232-upstream
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>RXN00232
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GTCTCGTTCTTCCTAGGCTTGTTTGTTTTCAACGTGCCATATTTCTGGGTTGTGTTCATC
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>RXN00232-downstream
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>RXN00236-upstream
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>RXN00236
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>RXN00236-downstream
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>RXN00242-upstream
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>RXN00242
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>RXN00242-downstream
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>RXN00247-upstream
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>RXN00247
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>RXN00256-upstream
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>RXN00256
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>RXN00256-downstream
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>RXN00264-upstream
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>RXN00264
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>RXN00264-downstream
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>RXN00267-upstream
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>RXN00267
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>RXN00267-downstream
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>RXN00271-upstream
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>RXN00271
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>RXN00272-upstream
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>RXN00272
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>RXN00272-downstream
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RXN00283-upstream
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>RXN00283
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>RXN00283-downstream
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>RXN00334-upstream
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>RXN00334
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>RXN00334-downstream
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>RXN00338-upstream
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>RXN00338
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>RXN00338-downstream
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>RXN00342-upstream
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>RXN00342
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AAGAAGCCT

>RXN00342-downstream
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>RXN00344-upstream
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>RXN00344
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>RXN00344-downstream
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>RXN00353-upstream
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>RXN00353
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>RXN00353-downstream
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>RXN00354-upstream
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>RXN00354
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>RXN00354-downstream
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>RXN00362-upstream
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>RXN00362
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>RXN00373-upstream
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>RXN00373
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>RXN00390-upstream
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>RXN00390
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>RXN00390-downstream
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>RXN00399-upstream
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>RXN00399
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>RXN00399-downstream
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>RXN00416
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>RXN00416-downstream
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>RXN00422-upstream
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>RXN00422
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>RXN00447-upstream
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>RXN00447
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>RXN00447-downstream
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RXN00455-upstream
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>RXN00455
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>RXN00455-downstream
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>RXN00473-upstream
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>RXN00473
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GCGGTCCCA

>RXN00473-downstream
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RXN00485-upstream
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>RXN00485
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>RXN01231
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>RXN01246-upstream
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>RXN01263-upstream
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>RXN01266-upstream
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>RXN01266
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>RXN01275
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RXN01301-upstream
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>RXN01301
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>RXN01324
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>RXN01326-upstream
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>RXN01331
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>RXN01337-upstream
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>RXN01337
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>RXN01351-upstream
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>RXN01351
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>RXN01471-upstream
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RXN01557-upstream

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>RXN01590
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>RXN01987
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>RXN01987-downstream
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RXN01988-upstream
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GCCCCTAGTTGTTGCGAATATTTATAGATTGTTGAGAAAG

>RXN01988
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CGCGAGCACCTCGACAATGGTGCAACCCAGGTGATGATCCCCGTCATTTCACCTTCCAAC
CTGACCTTGTCAGTAGTTGCCCTGGGCAATGAAGAGGTTGACGCACTGGGCCATTCCGAA
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>RXN01988-downstream
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>RXN01991-upstream
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>RXN01991
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>RXN01991-downstream
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>RXN01996-upstream
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>RXN01996
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>RXN01996-downstream
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RXN02007-upstream
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>RXN02007
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>RXN02007-downstream
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>RXN02014-upstream
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>RXN02014
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>RXN02014-downstream
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>RXN02019
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>RXN02019-downstream
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>RXN02023-upstream
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>RXN02023
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>RXN02023-downstream
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>RXN02032-upstream
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GGTCTATTTTTTATGCCCAGGCACGGCTCATAGGAGAACC

>RXN02032
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GGCATCTTTGGTGTCTTCCAAGCGGCAATGCCTTTAATCGGCTGGTTCATTGGCCGTTTC
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>RXN02032-downstream
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>RXN02039
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>RXN02039-downstream
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RXN02044-upstream
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>RXN02044
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AAG

>RXN02044-downstream
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>RXN02045-upstream
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CCGTTCAAGATCTCAACAACGAGAATGAGGTAACCAAGTA

>RXN02045
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GCTATCATCGCTGGCATTCTCTGGGTCACCAAAGCAACGATCTACCAGTACTCTGGTTTC
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>RXN02045-downstream
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>RXN02049-upstream
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>RXN02049

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>RXN02049-downstream
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>RXN02050-upstream
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>RXN02050
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>RXN02050-downstream
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>RXN02059-upstream
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>RXN02059
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CGCGTTACAGGTCGTCTCACGTGGGGTCGTGTGATTGCCGGAGGAATGGCATCTGGCGCA
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GATGTGATTTGTTCCCCAGAACGTGCTCGGGAAGCTCGAGACATGATTGCCCTGAAAACT
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>RXN02059-downstream
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>RXN02066-upstream
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ACATCCTTGAAAGTCGAGACACAGGAGGTCATCGGAAGAT

>RXN02066
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GTTGATTATCTCCGCTCAGAGTGCAAAAACGAAGAAGTGTCCGCCCCAATGGACCTCAAA
GCACGGCTTGCCAGCCTCGCCACTGAGTGCATGCCTGGCCCTGGCGCAGAGAATTTAGCA
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AACCAAGGCCGC

>RXN02066-downstream
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RXN02067-upstream
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TATTTACATTTTCTGAAAGACCGGTCTGATGTTTTCTAGC

>RXN02067
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>RXN02067-downstream
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>RXN02075-upstream
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>RXN02075
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GCACTACGCCGAGGAGCTGGAGCTACTGGCCGCGAGCTGCGCGATGAGCAACCGGCAGCG
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CGAGACTAC

>RXN02075-downstream
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>RXN02076-upstream
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>RXN02076
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>RXN02076-downstream
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>RXN02094-upstream
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>RXN02094
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GGCCGACTGATGCGCTACGCAGTGAAGGAAGTAAGCAAGCGTTTCCGTTCGGCATTGATT
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>RXN02094-downstream
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>RXN02104-upstream
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>RXN02104
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>RXN02104-downstream
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RXN02107-upstream
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>RXN02107
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>RXN02107-downstream
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>RXN02108-upstream
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>RXN02108
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>RXN02114
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>RXN02121
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>RXN02151
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>RXN02169
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>RXN02180-upstream
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>RXN02180
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>RXN02185
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>RXN02186-upstream
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>RXN02186
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>RXN02207-upstream
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>RXN02207
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>RXN02223
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>RXN02226-upstream
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>RXN02226
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>RXN02238
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>RXN02254
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RXN02271-upstream
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>RXN02271
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>RXN02279-upstream
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>RXN02279
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>RXN02296
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RXN02300-upstream
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>RXN02339
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>RXN02340
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>RXN02360
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>RXN02361
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RXN02368-upstream
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>RXN02368
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>RXN02381
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>RXN02383-upstream
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RXN02534-upstream
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>RXN02538
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>RXN02624
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>RXN02626
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RXN02693-upstream

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RXN02696-upstream
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RXN02697-upstream
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>RXN02697
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RXN02781-upstream
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>RXN02781
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>RXN02782
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RXN02838
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RXN02841-upstream
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RXN02846-upstream
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RXN02847-upstream
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>RXN02847
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>RXN02911-downstream
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>RXN02914-upstream
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>RXN02914
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>RXN02924
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RXN02997
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>RXN03005-downstream
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RXN03009-upstream
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>RXN03009
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RXN03010-upstream
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>RXN03010
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>RXN03010-downstream
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RXN03011-upstream
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RXN03012
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RXN03017-upstream
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>RXN03018
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RXN03024-upstream
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>RXN03025-upstream
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>RXN03025
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RXN03027-upstream

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>RXN03027
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>RXN03027-downstream
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RXN03029-upstream
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>RXN03029
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RXN03031
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RXN03034
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RXN03037-upstream
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RXN03045-upstream
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>RXN03045
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>RXN03046
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RXN03047-upstream
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>RXN03048-upstream

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>RXN03048
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>RXN03048-downstream
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RXN03050-upstream
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>RXN03050
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GAGATC

>RXN03053-upstream
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>RXN03053
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>RXN03053-downstream
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RXN03055-upstream
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>RXN03055
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>RXN03055-downstream
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RXN03059-upstream
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>RXN03059
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>RXN03059-downstream
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RXN03062-upstream
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>RXN03062
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RXN03066-upstream
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>RXN03066
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GGA

>RXN03066-downstream
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>RXN03067-upstream
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>RXN03067
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>RXN03068
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>RXN03068-downstream
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RXN03073-upstream
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>RXN03073

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>RXN03073-downstream
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RXN03085-upstream
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>RXN03085
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RXN03089
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>RXN03089-downstream
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RXN03098-upstream
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>RXN03098
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>RXN03098-downstream
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RXN03099-upstream
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>RXN03099
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>RXN03099-downstream
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RXN03104-upstream
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>RXN03104
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>RXN03104-downstream
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RXN03106-upstream
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>RXN03106
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GCTGATTCCATC

RXN03107-upstream
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>RXN03107
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>RXN03107-downstream
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RXN03113-upstream
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>RXN03113
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>RXN03113-downstream
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RXN03115-upstream
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>RXN03115
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>RXN03115-downstream
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RXN03122-upstream
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>RXN03122
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>RXN03122-downstream
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RXN03134-upstream
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>RXN03134
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>RXN03134-downstream
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RXN03135-upstream
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>RXN03135
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>RXN03135-downstream
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RXN03138-upstream
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>RXN03138
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>RXN03138-downstream
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RXN03140-upstream
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>RXN03140
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RXN03141-upstream
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>RXN03141
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>RXN03141-downstream
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RXN03146-upstream
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>RXN03146
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GACGCCCACTCGCTCGCCTGGGTTGATCGAATTGCCATCACCATCGCAGCCGGCGCCGTT
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TTCGGTCTCATCCTCGCGATGCTCATCACGGGCGTATCCCTGCTGGTAAAAATCATGCGC
GCACTCCTGGCCCGCGCCATCGGATTCTCCACGGAACTGGAATCGGTGATC

>RXN03146-downstream
TAAATGGCCATCATCGTCGACAT

RXN03147-upstream
CCCTGATCCCGAGGACGATGACCGCCAAAGCGATGGCGCCTCCAATCAGGATGTACTGCA
GTGGGATTGGGCGGGCGTCATCGATGGCATCGATGCAGTT

>RXN03147
TTGGAAATCCTCTTTAAGAGCGGTTTGGGATTCGTTGTAATCATCGGTGCGGTCGGCGAA
TACTTCGGCGCGGATTTCTGCGGTGCGGGTGCCGGTGGTGGCGGCTTGTTGAAGTTGGCT
GAGTACATCGCTGGCTGGATCGCTGGAGAATCCGCTGATGATGTCTTTGGCTTCGTCGTA
TGTGTACTCCGTTTTGAAACTTTCCTCGGCGTTGGGGTCTGCCAGCGTGGGATCGTCTGG
GAGGAGCATGGC

>RXN03147-downstream
TAGGCCTTCGCCGGATTCGATGG

RXN03149-upstream
GCTTTACTAGAACCAGTGATCGGTAAACTACCTTTTAGTTCGGCTATTAGCAGTACAATC
TCTGTGGCGCTGGGATTTATTTTAGTTACCGTATATCGAT

>RXN03149
GTGGTTATTGGCGAACTGCTTCCTAAGAGCTATAGTATCGTCAATACGGAGAAGGTCGTC
TTGTTCGTAGTTAAACCACTTCATTATTTTTATAAAGTAATGTTTCCTTTTATTTGGGTA
TTGAATCATTCAGCTGCAGGGCTAGGGAAGCTATTAGGTGTGCGTCTCGTATCTGAAGGA
GAAGAGACATTGTCTCAAGAAGAGCTGACATTAGTCGCATTGAATTCTTATGAAAAAGGA
GAGTTGCCAAAGAAGAATATCATTATT

>RXN03149-downstream
TGAAAACGTGTTTGAATTTGATG

RXN03152-upstream
GCAAAATATCAGCTTTGACCTGCACATATAGTTGCACAATGGTGAAAGTGCACATAAAGT
AACTTTCGTATTCGAATATTTAAACCTAAGGGGTTTAGCA

>RXN03152
ATGAAGCTATTTTCTCGTACTCCCCTCGTCGCACTCGGCACAGCTGCTGCAATGGCAGCA
ACCTCCATCTCCGTTCCTGCACAGGCTGAAGAAGTCGCACCAGCACAGGTTGTGTACGTG
GCTGACACCGTAGAAGAAGAAACGGGTAGCTCCAACGGATCTTCTGACATTGACTCTGAC
ACCATTTTGGATTACGTCGTCGTTATTACTGGCATCGTTGGCGTCCTCAGCGCTGGTTTG
ACCTTCGCTACTGCTTTCCAGCGTTCATTGCAG

>RXN03152-downstream
TAAATTTCAGCGTTAATCACCAA

RXN03153-upstream
TAATTTGAATTTTAGGGAACCTACCCCGAGCTTTTGCAGTCTAACGCTTATGAGTGCCTT
TTCACGGCCCTCGTTACGACTACAAAGATCGGGGTATTTT

>RXN03153
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GGATCCACCACTCCCACAACCGTCACGGTAACCGCAACGCCAACGTCGGAGGAGGCTGCA
TCCACGGAGCCGACCAACGACATACTTGCCAGCCAATTTCATCCGTGTGAAGTACTCACG
CAGGAACAGTTCGAAGAAGTCGGATTGGGAGTCTTGATTGTTGAAGACGCTTACCTCGGC

TCGACAGGTTTAGGTTGCAGTTTCGGGAAAGCAGACAGAGAGGATTTTTCAGGTACGTGG
CTCATTTCAACTGACCAAGCAAACCGACAATTTGTTGAAAACCAAGATCTAGAGACATTG
GATTGGGGATCCAATGACAATCCAGATCTGTATGTGCATCAAATGTCCGAGACGGGTCGT
CAATGTGAGGCAGCAGTTGACTATGACTGGGGCCGGCTTACGGTTGACTATCTCGAATTA
GGTGAGGGCTGGGAGCCAGAAATTTTGTGCTCTGATGCTGTTGAAATTTTAGAAAATCTC
ATCAAGGAACTAAGGGGAATTCCA

>RXN03153-downstream
TGACATTGAAAATTGATCCCTCG

RXN03154-upstream
AAAGTGCCCTCTCCTAAATCGTTTCTAAGGGCTCGTCAGACCCCAGTTGATACAAACATA
CATTCTGAAAATTCAGTCGCTTAAATGGGCGCAGCGGGAA

>RXN03154
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GATAACAAAGACTCCCAACTGGTGATGCTGTGGCCAGGTTTCGGCATGGGTGGCTATTAC
TATCGTCCGCTTGCGGCAGCGCTAAATAAAGCTGGATTCCATGTGGCGATTGGTGAACTT
CGTGGTCAGGGGCAAAGTTCCGCGAAGGCTTCTCGGAAAAGTCAGTGGGGATACCATGAT
CTCGCATCGGTAGATTTTCCGCTGCAGATTGCCGCTGCGAAAAAGGCGCTTGACCTGGAG
GAAGGCCATCCCATGAGGTTTTTGTCGCATTCGATGGGTGGGCAGATTTCTTGTCTTTTC
GCAGCGAGGCCGGAGGCTGAGAAATATAATCTTCGGGCGATTTTCGGGGTGGGTGCAGGG
TCGCCGTTTAGGCCTACGTTTAGTCCGAAAATGGGGAAGCGTTTGGGATTGGGTGCGGTG
CTGCTTGGTGGGATTGGTGGCCACATTGTGGGATTTTGGCCCGGCAAAGTTTTAGGAAAA
GACCTGGTGGGTTATGGCCGACAATCGGGAACTCACATGAGGGAATGGCGTCGATTCCAT
AAGCACAATTCTTTGGACGATCTCACCGCGCAGGACATCAACTATGTGGAGGTGATGAAG
AAGGTGAGCATTCCTATTACTTTTAGTCGTTGTCCTGATGATGAGGACTGCCCGCAGGCA
TCGATTGATGGGTTGGCGAGTTTTGTTCCCGCAGCGCAGATCAAAATGATAGAAATTCCA
GAAGCCCTGGGACATAACCGGTGGGCTCGGGAACCTGAATCAACAGTGAAACTCTTCCTG
GAACAAGCTCTT

>RXN03154-downstream
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RXN03156-upstream
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AAGAAGGATAACCACCACACCAGAAAAGAAGTACCTCATT

>RXN03156
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CAGACCATCGGCATTGATCTTGCTGAACTGATTCAGGGCCGTGCACTCGGCCAGGCTCAA
GGTGAGGCACAAGGCAAAGCTAGTGCAGCAGCCCTTGAGCAGGCACCTCATAATGAGCAG

>RXN03156-downstream
TAAATAACACACACCACATGTGC

RXN03162-upstream
GGTCAATCAGTTCCTGCCACTGCTCTGGCTTGTCGTAGGTGTACTTCGCGCCGGAGAACA
GGGTTGCGGAGAAGTTGTCGCCGCCTTCTGCTGGCTTCTT

>RXN03162
GTGCACGACGAACACTGGGTGTGGTCCGACGAGAAGGATGCGGATTTCGCCTTCGACGAT
GCGTGGCATGAAACGCATATCAACGAGCATGCCGTTGTCGCCGATGATGTACTGGTCACA
GAAATCCATGAACTCGCCGAGCTTGCGGACTTCAGTGTGGTTGTCGACTGCTTCGGTGCA
CTTGATTTCAGTGTCCAATGGCAGTGCGGTGCCTGGCTCGATGGATGCAGCCAGTTCCTT
GTCTACCAACTGGACGCGCCAAATGCCGGAGCCGGTGGAGCCACGGTTTTGCTTGAGCAC
GCGCTCACCGAAGGACAGGGAGGTTGGGAAAACCTTGTGGAAGGTCTCCACGTCGTAGTA

CGCCTCGGTGTCGGATGGCACCAGGTCGGTTTGGGA

>RXN03162-downstream
TAGCTTGACCAGCGCATCTTTCG

RXN03167-upstream
GCCGCGACTGCGGGTGCTTTTGCGCTGTTGCGTAAAAAATAGTTTTTATTAAGGGCATTC
CCTGATTCCCAGGTGGTGCCACATTGTTTATGGTGGAGAT

>RXN03167
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GAAGCTTTAGGTGTTTCCCTTTCTGCCCGCGATCTTCGCTTAGAACAAATGGGAATTGCC
CAGGACGATCCTCGACGTGCCCAAACCGTCCAAGCTTTCGCAGTGCTTGCAGACCCAGCA
AAACGCGCCACCTACGATGCTCAATTAGAAGCTGGAGTTCCACTCACCTGGGCGCAGATT
CAGCATTTAGGAAACTTCGGCACCTTGCCTTCCACCCCTACTGCGCAGCCGTTTGCGGCA
CCTCAGCCGGAGCCGTCGCCGGAACCGCAACAGCAGTGGAATAGCGGACAAAACTATGCG
TATGGCAATCCGACCATGGATTACCAAACTCAGCAGAGCTACAACCCGATGCAGGACCAA
ACCCAAGCGTCGATGTATGCGCAACCTTTCGCGAACACCCCTGCACCGATGTACAACAGC
AATCAGGTTTTTAACAGGCCTACTGCGGGTACGCGTTTGTGGATGGCGATCCTCGACAGT
ATTTTTGCCGGCATCGCTGGTGGAATTGTCTCCGGTATTTTCGGCTTTGGATCTGAATTC
CTCACCAGTGTCATCATGATTTTGGTGCTG

RXN03170-upstream
GTTAAATCATTGCCGCCCAGAAGAAGACCGCGCGGGCGAATTTGGGCTTGGAGGGAACCA
AACGGCCACTTTTCCAGTCCAACAAAGTATGAGGATTAAT

>RXN03170
TTGCCCCACGCCAAAGAGCTCGCCCACGAGCTGTGTTTGTTGCCCACCCCTGCTGTGCCC
GCGCTTCCCACTGATTCTGGCGCGCAGTTTGATATCCACCAGGCACTATCCGCCTCCCTT
GCCACCTATGCCCGCAACCTCACCTTGCTGTCCCACACCGCCGAGAATTTAGGAAACCGC
GCGCTGACGGGCCTCGCTGAAATCGAAGACACCGACGACCAACTCGCACACGCATTGGAG
CGCCTGACA

>RXN03170-downstream
TGATCGGTCTGATCAGCGCCCTT

RXN03172
CCAGAGTGGAAGAAATTCAACTCCGGCGACGCAGCCCGCGTTGTCCCAGACGCCAACGCA
GAGCTCGACATCATCGGCGCACCAGCACTTCTTGCCGATCGCCCCTCCTACGCAAACGTC
AAAACCCTCTCCCGCATCTTCGCTGTCATGCGCAGCCTCGGCCACGTCACCGCTGCCTCC
CCAGTCACCGTGTTCTTCTCCTCCCACTCCGTGCTCAGCAACGTTGACCGCGGATCCGAG
CACTACTCCGGACCCAACGGCCTGGGCGAATGGACCTCCGTTGGTCGCGCAGTAGCCACC
AACTGGAACGGCGTTGTCGACGCCCTCGACGAAGCCATCACCGTCAAGGAAGTAAACAGC
CTCTTTACCGAAGACGCCGCAACCCGCATTCAAGAAGCACAAGCAGCTGTTCAGGCAGCT
CGCGAGGCTGAAGAGCAAATCGCCAAGGAAGAAGCCGAAAAGGTCGACCCTTACGACAAC
TCCCCATGGGCTGCAGCAGGCATCGACCCCATCAAGGTCTCCATCGACGGACGCACCATC
TACACCCTGCGCACCTACCTCGGCGGACAGCCAGTATTCCTCGGAAAATTCGGCGAAATC
TCCACCTTCAACAGCCAAAAATCCCTCCTGCGCTGGCTCGTCGAACACGATGACCACGAC
CTCGCCCGCGCCTCCACCTGGAGCGACCTCATGCTCGGCATCAACGCCGGTGAAACCGAA
CTCCTCGTCCACAGCGACAACGTCTACTCCTTCAACGGCCTGGTCAAAGACATCAACACC
TCCGTCGACGCCGTAGACACCCAACAAATGGCCCGCGCCTACGAACTCATGGCAGACACC
GCCGACTGGGCCGACGACGACTCCATGAATTCCTACTTCCTGGCCAACCCACGCATGCAG
GACTACATCTCCTACATGCTCGGCGGCAGCGACACCTCCGGATATGTCCCTCACGCACCA
TTCAACGACCACTCTGAGAGCTGGCGCGAGCTGGAGGAGATGCTGATCAAGCGATTCAGC
AAGTTC

>RXN03172-downstream
TAGGTCGCCTATTTGGGGTTCGT

>RXN03173
CTCAACCGCGACACCCATCACCTGTGGGTCGTCTTAACCACCGACTCCGACGACTTCGAC
GCAGACTCCTTTACCACCGAAGTCATCCGGATCACCGGCTACTCCCGCCACGAAGTCAAC
AACGGCCTTAACGCCATGGCCGCGATGACCAACCTCCCACACCTGCGCGCCATCCAAGAA
CGCTACTACTTCCTGAGCATCCGCTACCTCGCCTCCATCATGATCGCCGTGGCCAAAGCA
GACCCCACCCTGTGGGAAGAACTCGACCTGCGCATCACCGACGCCTTAACACCAGTCACC
GCAGGGGAAGTCATGATCCAATCCTCCACCCTGTCCAAACGCATCGCCGCCTGGATCAAA
GAACTCGACCCCGAACCCACACCAGAGCCCACACCGAAAGAGGACTATGTTCACGTCCAC
ACCACTGATGAGGCGACCTATGTCCGCATCAAAATCAGCGGCCCCAACCGCCTGATCCTC
AATGACATCATCACCCAACTCAAAGACACAGACACCGAGGACAGCCTGCCTGAAGCGCTC
ATGGCGTTCCTGACAGAGAAAATCCAGTTAAAGATCACCAAATACCTCTTCACCCCACAT
AAGCACCCTGAGCAGGTGTGGTCACCGGACTACGGTGACATTGATCCCGAAGCCTATGCC
AACGCCACCCTCGTGTGCGCCAAGGACTTAGATGAGCTCGCTGGAGCCACGGAGAAGAGC
TACACCCCGAGTGAGAAGATGAAAGCCCTGATCAGAGCTCGGGATGGGCATTGCCGCTTC
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GGCGGCCCGACAGCGGCGTGGAACCTGCAGTTGTTGTGCCAGCGGCATCACAATATGAAA
ACCGATGGTCGCTTTACTGCTGATGCTAATGGATTGGCGGAGATTAGATGGATTGGGCCG
ATGGATGTACCAGCGGTGACCAGGCCGACGGGTCCGTTGGTGAAAGCGATGCCGCGGGGG
ATTTGGGGTCAGGTGTTGAGGGATCGGATCCAGGCTAGGTTTGAGCGGATCCGCGACCGC
GCCCTCAACAAAGAAGAC

>RXN03173-downstream
TAGAAGCGCACAGGTTTTTGCAT

>RXN03174-upstream
GCGATGCTCGAACGCGCAGAACGCTCCTGGGTAGACAAAGCCGCTGCATACGATTTGCGC
TGGTCAGATCACTCACCACTGAACGTGATCTACTCCTAAA

>RXN03174
ATGCTGCTGACAATTCTATGGGCCATCGGCATCACCGCCGAAGGCATGACAGGCGCGCTG
GCCGCAGGCCGACAAAAAATGGATCTCTTCGGAGTATCCGTCATCGCATGCGTTACCGCG
ATCGGCGGCGGATCCATCCGCGACATGCTGCTGGGACATTACCCGCTGGTGTGGGTGGAA
AAGCCACTGTATCTACTGCTGATCATTGGCGCAGCCATTTTGACAGTGTCCATTTCCTTC
CTGATGGAGCACTTCCGTGTGTTGTTCCTCGTGCTCGACGCCGTGGGTCTTTCTGCATTC
GCTGTGATCGGCACACAAATCGCACTGGAAATGGGCTACGGATTCATCATCGCAGTAGTG
GCATCAGTGCTCACAGGTGTATTCGGCGGCGTCATGCGTGACCTTTTGTGTGACCGCATC
CCACTGGTATTTCAAAAAGAGCTCTACGCATCAATC

>RXN03177-upstream
CTGCCCGATTTATGTTTTCCGACGGCACCATCTGCAAAGAACGAGTGTGACCGGTAGCTT
TATGGGCTGAACAATTCTAAGGAGAATTATCC

>RXN03177
GTGAAAAAGAAGCTTATGTTGCCTTTGATTGTTGCAGCTTTGGGGTTAAGTGCCTGCAGC
TCCGAACCTGCAGCAGCCCCACTCGAAGCAGAGCCATTACATAACCTGCTCATTGATGGT
TCAGAGTCCGGCTTGGACAATGCCACTGAAGGAAACGACACCTCATTAAGTGGCCAACCC
ATCAATCTTACAGTGGTCAACGGTGCCTTAGATATCGATGGCTCCTGCGGAAAAGCCCTC
CAAGCTGTAGAGGACGTCAATCTGGACAGCGTAGCTAGCGCATCCAGGGCACTGGCATCC
GGCGACAAACAAGTAGGCATCGCCATGTACTCAACCGCCGAAGACAACGACATCTCACCA
ATGGACCTCTACGCAGACATCGCGAATGCTTGCGAAGACCCCGTCGTCGATTCTTCCGAC
ACCACCTACACCTTCGGCAAACTCGATGATGCTCCCGACGGCGCCGTTGGATTCACCCTC
GACATTGAAGTCACCCCTGACAATCAAGGCTCCACCGTGATGATGATCCAAGAATTAGGA
AACCACCACATCATCGTCGCAGGACTTGAAACCACCCCAGAAGAAACCGCCACTGTCTTC
GAAGCACAACGCACCAAACTCGAAGAAGGCTTGCAGCTTAAACAGAATTGGCAGCTTGGG
TGGGTT

>RXN03177-downstream

TAAATGCGCCCAACCTAAGAAAA

RXN03182-upstream
ACTCGACACCACCGTCACCAACTTCATGATGGTCATCGCACTCTTAGGATTCATCAGCTC
TGTATCCGTAGCCCGCTTCCGCAAGAGGGATGGTGCCTAA

>RXN03182
ATGACCCTGCAACTATTCACCGACATCGTGTCTCTGGTGTTCATTCTCAGCGGCGCATTC
TTGTCATTCTCCGCATCCATCGGCCTCATACGATTCAAAGACACCATGTCCAGAGTCCAC
GCCATGACCAAACCCCAAACAACCGGCCTTATCCTCACCGTTGTAGGCGCAATCATCCGC
ATCTTAGGCCACGAACACTTCGATCAATCACAACGCAGTGACCTCGGAGTCCTTGTTCTC
CTCGTACTGTTTGCACTGCTCACCAGCCCAGTG

RXN03184-upstream
GCACAACGTCGCTGGTCAGTGCCATTAGTCACGCAAGAAATGGGCGGGTCCGGTGGAAGA
CTGGCCTGCTGTTTGGTGCCGCGGGC

>RXN03184
ATGGTTGGCGCGTTTGGCGGTGGCGTTCTCGGGGGCTACATTCCTGGCACGATTTTGATG
ATCGCGTTTGCGCTCATGATGATCGCCACGTCGACTGCGATGTTGCGGGGGCGTAAGCAG
AAGAAGGGGGCGTCGAAAAGCTCTCTTTGGCGCGTCCTTGTTGATGGCCTGGTGGTCGGC
GCGGTGACCGGGCTTGTTGGTGCGGGCGGCGGCTTTTTGGTGGTGCCGGCGCTGGCGCTG
CTCGGCGGGCTGTCGATGCCGGTGGCTGTGGGCACGTCGTTGGTGGTGATCACGATGAAG
TCGTTTGCGGGGCTTGCCGGGTATCTGACCAGCGTGCAGCTGGATTGGGGGCTGGTGCTG
ATGGTGACTGCGGCCGCCATCGTCGGTTCGCTTGCCGGTTCGCGCCTTGCGGGGCGCGTG
CCTGAGACTTTGCTCCGCAAAGGGTTCGGGGTGTTCGTGCTGGTCATGGGCGTGTTCGTG
CTCGGCTTGGAGCTTTTA

>RXN03184-downstream
TAAGCTTTTCGACGTCTCC

>RXN03185-upstream
AGCGCCCAACCGTTCAGACCAGCGGTTTCTCTGAGGATGCAAAGTCCATGATGGGTNAGG
TCACTGAGCTGTCCGAAACCACC

>RXN03185
ATGAATGATCTTGCAGCTGAAGGTGAAAACGATCCTTACCGCATGGTTCAGCAGCTGCGC
CGCAAGCTCTCTCGCTTCGTCGAGCAGAAGTGGAAGCGCCAGCCGGTCATCATGCCAACC
GTCATTCCGATGACTGCGGAAACCACGCACATCGGTGACGATGAGGTTCGCGCTTCACGC
GAGTCCCTG

>RXN03185-downstream
TAAAAGCATTTCGCTTTTCGACG